

IN THE CLAIMS:

Listing of Claims:

- 1 **1.** (original) An IEEE1394 tone transmission method in beta mode comprising:
2 a controller for automatic adjustment of power consumption level of the device as
3 to whether or not an effective bus connection being made, a current reference with
4 temperature compensation, a self-calibrated oscillator, a "tone" transmitter, a "tone"
5 receiver, and termination circuitry.
- 1 **2.** (original) An IEEE1394 tone transmission method in beta mode according to claim
2 1, wherein it automatically adjusts power consumption level when the cable is not
3 plugged in.
- 1 **3.** (original) An IEEE1394 tone transmission method in beta mode according to claim
2 2, wherein the termination resistors are disconnected when the cable is not plugged in.
- 1 **4.** (original) An IEEE1394 tone transmission method in beta mode according to claim
2 1, wherein the oscillator is calibrated during the normal transmission when the cable is
3 plugged in.
- 1 **5.** (original) An IEEE1394 tone transmission method in beta mode according to claim
2 1, further comprising shutting down all circuits other than the current source, the
3 oscillator, the tone transmitter, and the tone receiver, and disabling the termination
4 resistors while the cable is unplugged.
- 1 **6.** (original) An IEEE1394 tone transmission method in beta mode according to claim
2 1, further comprising automatically detecting the cable connection and connecting the
3 termination resistors after cable connection is detected.
- 1 **7.** (currently canceled) [An IEEE1394-compliant transceiver, comprising:
2 a receive pair interconnected by a first resistor module;
3 a receiver connected to said receive pair;

4 a controller connected to said receiver;
5 a current-controlled oscillator controlled by said controller;
6 a calibration controller for calibrating said current-controlled oscillator to a
7 reference frequency;
8 a transmitter for transmitting a signal generated by said current-controlled
9 oscillator;
10 a second termination resistor module defined by at least one resistor and switch
11 means for shorting said resistor responsive to said controller; and
12 a transmit pair connected to said second termination resistor module.]

1 **8.** (currently canceled) [The transceiver of Claim 7, wherein said controller defines an
2 enable termination mode and a disable termination mode, said controller controlling said
3 switch means to short said at least one resistor in said disable termination mode and to
4 close said switch means circuit with said at least one resistor in said enable termination
5 mode.]

1 **9.** (currently canceled) [The transceiver of Claim 8, further comprising a reference
2 signal generator for generating said reference frequency.]

1 **10.** (currently canceled) [The transceiver of Claim 9, wherein said reference signal
2 generator comprises a crystal oscillator.]

1 **11.** (currently canceled) [The transceiver of Claim 7, wherein said calibration
2 controller comprises a phase/frequency detector for comparing said reference frequency
3 to a signal generated by said current-controlled oscillator and generating a control signal.]

1 **12.** (currently canceled) [The transceiver of Claim 11, wherein said calibration
2 controller comprises a digital counter for collecting said control signal from said
3 phase/frequency detector.]

1 13. (currently canceled) [The transceiver of Claim 12, wherein said calibration
2 controller comprises a digital-to-analog converter for converting a signal generated by
3 said digital counter into an analog current signal.]

1 14. (currently canceled) [The transceiver of Claim 7, wherein said controller is
2 responsive to an IEEE1394-compliant cable being connected to said receive pair, said
3 controller thereafter responsively adjusting to enable termination mode and commanding
4 said switch means to close said circuit to said at least one resistor.]

1 15. (currently canceled) [An IEEE 1394-compliant tone transmission apparatus in beta
2 mode, the apparatus comprising:

3 a current source;

4 a current controlled oscillator connected to said source;

5 a means for calibrating tone frequency generated by said oscillator during normal
6 transmission and further transmitting tone signal at a constant frequency during
7 IEEE1394-compliant standby mode when a cable is not plugged into said apparatus;

8 wherein said constant frequency is achieved through temperature and voltage
9 stabilization means associated with said current source and said oscillator.]